December 1, 1989 Issue 515

DXpedition News

Laos - XW The Japanese team that set up **XW8KPL** has returned home, so don't expect any CW operation until they return around the end of the year. Team chief JA1UT reports the following first contacts as XW8KPL: 20M SSB: 0513Z/Nov. 14; 15M SSB: 0548Z/14; 15M CW 1105Z/14; 17M SSB: 0334Z/15; 10M SSB: 0751Z/16; 10M CW 1042Z/16; and 20M CW 1541Z/16. QSOs before those times are bogus. The station is running barefoot to a tribander fixed north, and can only be on one band at a time. Best times to look for them are 04-0700Z and after 0900Z. Don't send US$1 ("green stamps"); use IRCs. QSL address in Issue 514.

Laos - XW The latest word on the **XW8CW/DX** operation had the operators on schedule for a Nov. 28 start. However, the French DX Foundation has decided **not** to handle the QSLs from this operation. Hold off on any QSL cards until this situation is resolved.

Edited by Chod Harris VP2ML

The DX Bulletin

America's Premier Weekly Amateur Radio Publication

Tanzania - 5H Tom Warren 5H3TW will operate as **5H1TW** from Zanzibar Is. (AF-32) Dec. 17-24, on 80-10 meters. Watch 3505, 7005, and 25 kHz up on 20-10M CW, and 14175, 21265, and 28495 kHz on SSB. Tom may be active as **J2ØTW** earlier in December. QSL all of Tom's operations to K3ZO. Tom is trying to set up club stations at the local university and Scout headquarters, and seeks equipment donations. Contact *The DX Bulletin* if you can help with gear.

Anguilla - VP2E Mac KV4AM returns as **VP2EMA** (NA-22) through Dec. 6. CW/SSB, including SSB nets. QSL home call. (Mac requests a small donation as well as SASE to cover QSL costs, but will QSL without.)

Ogasawara - JD Bin Tanaka JA3EMU will be **/JD1** Dec. 31-Jan. 8, 160-10 meters, including the new bands, concentrating on low bands, Europe, and RTTY. QSL home call.

Reserve Your Island - ARRL CW

- Jim Cain K1TN will be on from the Bahamas **/C6A** in the CW test. QSL home call.
- Jack W1WEF, Vince K1RM, and John W1BIH will be on as **PJ2J** multi-single in the test. QSL K1CPJ. John will be on as **PJ9JT** Jan.-Mar., as usual. QSL W1AX.

Shortly Noted

- **XT2KG:** The Colvins have moved to Burkino Faso from Niger. As 5U7QL, they were on 7001 kHz at 0230-0400Z, 14010 20-2100Z, 21005 1600Z and 20-2100Z, 28009 14-1800Z, and 28515 1530-1700Z. QSL Yasme.
- **5W1HK:** Mats SM7PKK has moved to Western Samoa on his way to Rotuma, via Fiji. If he can find transportation, he'll be on as **3D2XR** from Rotuma for a month. He asks US/NA DXers to avoid 7005 kHz 05-0700Z so that he can work weaker European stations. QSL home call.
- **ZB2/F2JD** will try to get on in the ARRL 10-meter contest Dec. 9-10. QSL home call.
- **TL8HW** will be operated by Harry DL8CM on CW only, until Dec. 14. QSL route to be announced.
- **Southern Africa:** Achim DF3EC has been very active from various Southern African locations, and plans to operate from Lesotho 7P and Swaziland 3DAØ in December.
- **G4WYG/ST2** Brian is on 14010 or 14053 kHz at 1800Z. QSL G. Kennard G4OHX, 15 Shuttle Close, Sidcup, Kent DA15 8EP, England, direct only; no bureau cards.
- **IP4T** is a special call until Dec. 15, from the Italian PTT.
- **SV2ASP/A** is monk Apollo from Mount Athos. He has requested **SY2A**, and will get on HF when he gets a rig.
- **D2/LU6ELF** has been on bands others than 15M, and hopes to get on 40 and 80 soon. QSL via N4THW.
- **Bhutan:** Several sources report that the king of Bhutan has re-authorized amateur radio in the tiny Himalayan kingdom. A5 may return to the amateur bands soon.
- **DXCC** backlog is about three months; be patient, please.
- **SSB Net Check-ins:** 14222 kHz: TL8CM D2/LU6ELF; 14227: FR4FD FK8FA KA6DR; 14250: SU1PN A61AC 5U7QL 9K2KS JY3ZR; 14256: TT8GA UI8FM FT4ZE; 21335: 5U7QL 3A2LF T5GM TR8CJ SV9ANK 5V7DP 5Z4BP AP2JZB A92BE ZC4AB A41JZ TL8HW.
- **80-Meter Net:** RB5FF runs a DX net on 3640 kHz at 0100Ż Tuesdays and Thursdays. Stateside CW is accepted, and they sometimes go split for SSB QSOs.
- **6 Meters:** The band is hot! Transcontinental F2 openings that last 8-9 hours, East Coast to Japan openings, band open daily for hours, what more can the 6-meter DXer want? Among **countries** worked recently are: Mexico, Alaska, Iceland, Guatemala, Guantanemo Bay, Scotland, England, Wales, Netherlands, Jersey, Columbia, Madeira, Namibia, Ireland, Finland, Brazil, Ecuador, Cuba, Haiti, Caymans, Japan, Korea, Liberia, US Virgin Is., Norway, Venezuela, Peru, Aruba, Greece, France, Northern Ireland, Columbia, Costa Rica, Guernsey, South Africa, Canary Is., Malta, Honduras, Sweden, Nigeria, Senegal, Netherland Antilles, Isle of Man, Portugal, Barbados, St. Kitts, Cape Verde, Belize, Nicaragua, etc. More than 50 countries in a single week! Look for a flood of 6-meter DXCC applications soon.

Propagation

Forecast and Historical Data

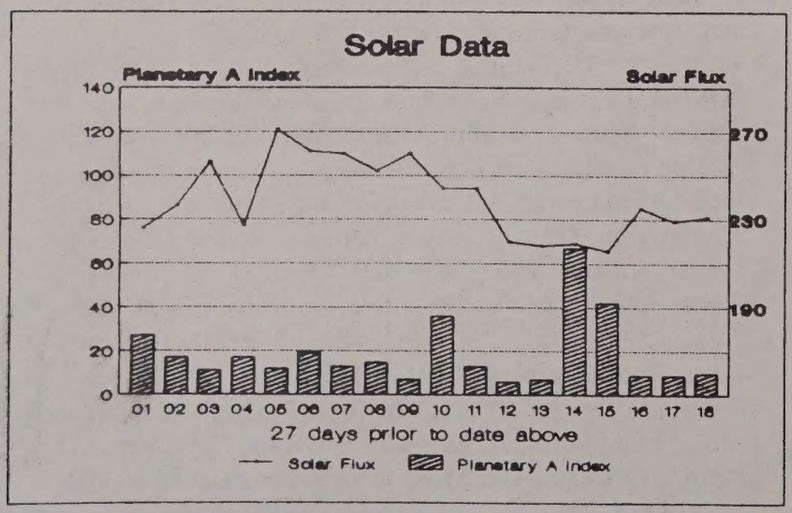
Day	Forecast	27 Days Before			55 Days Before			
December 1989		Date	Flux	A K	Date	Flux	A	K
1	Low Normal	11/04	226	22/27 3	10/07	225	13/11	3
2	High Normal	11/05	236	12/17 3	10/08	209	07/08	1
3	High Normal	11/06	256	08/11 2	10/09	201	09/09	2
4	High Normal	11/07	227	18/17 3	10/10	195	10/09	2
5	High Normal	11/08	271	14/12 3	10/11	191	07/07	1
6	High Normal	11/09	261	17/19 3	10/12	202	06/07	1
7	High Normal	11/10	260	10/13 2	10/13	223	02/05	0
8	High Normal	11/11	252	15/15 3	10/14	225	00/05	0
9	Above Normal	11/12	260	06/07 1	10/15	225	00/06	0
10	Below Normal	11/13	244	41/36 4	10/16	236	08/12	2
11	High Normal	11/14	244	10/13 1	10/17	224	12/13	2

Propagation Watch

What would happen if we had high solar flux and an extremely quiet geomagnetic field on a major contest weekend? DXers had an opportunity to find out during CQWW CW last week. The flux stayed in the 230 range, and the K index hovered near zero all weekend. The high bands were excellent, with 10 meters open far into the night. The high absorption caused by the high maximum useable frequency (MUF) reduced 80 and 160 meter signal strengths and contact count. The quiet geomagnetic field meant good long-path and polar-path signals, which was great to pick up extra multipliers.

The flux should rise during the next two weeks, but it is already high enough to push the MUF above 50 MHz most days. The chances of a major flare increases as the more active side of the sun rotates in our direction, which is the only negative news on the propagation horizon. Several sunspot regions that produced many M- and X-class flares in November are coming into view soon, so keep an ear on WWV at 18 minutes after the hour (or WWVH at 45 after) for flares reports and alerts.

In the absence of major flares, DXers can look forward to more excellent band conditions, especially on the higher bands. 10, 12, and 15 meters will be very good during daylight hours, and will remain open well after local sunset. Check these bands an hour or two after they appear to close; they often reopen, sometimes long path. 20, 17, and 15 meters are very good long path at local dawn. Check 40 meters at the same time. And if we are lucky enough to get a stretch of several days of near-zero K indices in a row, check out 80 meters. Good hunting!



Regulars

■ **Antarctica**	KC4AAC	15M SSB	0100Z
■ **Chagos**	VQ9DM	14025	02-0300
■ **China**	BY4RB	28027	0030Z
■ **Dodecanese**	SV5TS	28530	14-1600Z
■ **Easter Island**	CEØDFL	18140	02-0300Z
■ **Easter Island**	CEØFFD	28030	2200Z
■ **Equatorial Guinea**	3C1EA	15M CW	16, 2300Z
■ **Equatorial Guinea**	3C1EA	14040	0000Z
■ **Kazakhstan**	UL7VV	14210	0200Z
■ **Liberia**	EL7X	21010	20-2300Z
■ **Liberia**	EL2CX	21026	2100Z
■ **Nepal**	9N1MM	14210	0100Z
■ **Papua New Guinea**	P29PL	28030	2130-0200Z
■ **San Andres Island**	HKØBKX	14012	02,13,21Z
■ **Saudi Arabia**	HZ1HZ	14010	2030Z
■ **Saudi Arabia**	HZ1AB	28500	1230-1400Z
■ **Sierra Leone**	9L1CM	21233	21-2200Z
■ **South Shetlands**	HL5BDS	21011	00-0100Z
■ **South Orkney**	LU1ZA	21016	23-0200Z
■ **South Orkney**	LU1ZA	14014	00-0100Z
■ **Uzbekistan**	UI8ZAA	14245	0330Z
■ **Western Samoa**	5W1HK	14025	1200Z
■ **Zaire**	9Q5XX	15M SSB	2100Z
■ **Zambia**	9J2BO	10M SSB	1500Z

Important Notice about your The DX Bulletin/The DX Magazine Subscriptions

As of the start of 1990, a subscription to *The DX Magazine* will **no longer** be included as part of your *The DX Bulletin* subscription. Each publication will be separate, with separate subscription rates. However, any **present subscriber** may renew for up to two years at a special, reduced combined rate for both publications, before Dec. 31. One-year special rates are $37 second class mail, $46 first class mail, US$51 first class mail to Canada and US$68 foreign airmail. Double these for two-year rates. To take advantage of this special offer, your **must** include the control number from the upper left-hand corner of your mailing label. Send your check or MasterCard or Visa information to Box 50, Fulton CA 95439 right away to receive these special renewal rates.

Christmas Gifts

The DX Magazine makes a great Christmas gift to a fellow amateur. To send a gift subscription, send the name, callsign, and address of the recipient and $15 to Box 50, Fulton CA 95439, before Dec. 15. We'll provide a gift card for you to present on Christmas, and the gift subscription will begin with the January 1990 issue of *The DX Magazine*, which will arrive soon after the first of the year.

New FAX Number

The DX Bulletin/The DX Magazine has a new telephone number for facsimile receptions during office hours: (707) 523-1001. The best times to call are 1600-1900Z, and 2100-0100Z Monday-Friday. (At other times, someone may or may not be available to switch to the fax machine.) This manual system will be upgraded to an automatic system early next year, and will be available 24 hours a day. Meanwhile, for FAXes sent at other hours, continue to use the old number: (707) 523-0852.

B . A . N . D . P . A . S . S

*Key to Bandpass: Callsign, frequency, UTC, day of the month, state. * = long path. P = packet.*
All "portable" calls listed with country of operation first, regardless of format used on the air.

RTTY

5Z4BH	21094	1955	18	OH
9Q5EE	14084	0815	23	CA
OD5NG	14074	0300	8	OH
TI2CBM	14089	0050	8	OH
TR8CJ	21085	2103	11	RI
UA9FAR	14086	0355	11	OH
UQ1GWW	14091	0040	20	CA

160 Meters

KH3/KNØE	1832	0530	22	WA

80 Meters

7X4AN	3502	2217	10	NH
9M2AX	3508	1505	21	WA
HZ1AB	3507	1430	19	CA
JA1CGM	3503	1045	14	NH
KH2/NY6M	3505	1232	9	MT
KX6DC	3507	1100	18	NH
LY3BM	3522	0356	18	MA
PY1RO	3503	2130	15	NH
S92AG	3503	2145	11	NH
TI1ØØD	3506	0257	18	WA
TU4DT	3501	0414	20	AL
UAØFZ	3501	1030	12	NH
VK6WJ	3504	1120	14	NH
XF4T	3508	1158	19	FL

75 Meters

5H3TW	3794	0314	19	CA
7P8EG	3793	0311	20	CA
BZ4SAA	3799	1453	18	CA
UAØFF *	3795	2133	11	MA
V63AO	3794	1427	16	CA
VK6LK *	3796	2128	11	MA
ZS1DM	3799	0328	17	CA
ZS6WB	3795	0310	16	CA

40 Meters

3B8CF	7006	0200	7	MA
5U7QL	7001	0226	16	FL
6W1QB	7012	0352	9	IA
9M2AX	7003	2254	7	IA
A41JZ	7006	0048	18	FL
BY4RB	7008	1140	22	FL
CN8ST	7005	0309	12	IA
FK8FU	7012	1235	18	NB
HZ1AB	7004	0415	23	CT
KH8/ SM7PKK	7005	1415	17	MT
LY3BP	7003	0032	21	CT
RI1OA	7005	1153	22	FL
TU4DT	7001	0058	20	MA
UA1OIL	7000	2243	12	IA
V63YP	7004	1200	21	FL
VP2EMA	7005	0155	22	FL
VU2PCD	7005	1326	13	IA
XF4T	7006	1400	19	CA
YN3CC	7002	0640	21	WA
ZD8IAN	7003	2139	10	MA
ZD8VJ	7006	0123	10	IA
ZS6BCR	7007	2338	17	WA

30 Meters

VY2EA	10104	2303	24	FL
ZD8IAN	10109	2200	17	PA

20 Meter CW

3B8CF	14030	0254	15	GA
3B8FQ	14008	0202	11	MT
3C1EA	14039	2358	13	OH
4K1F	14015	0944	15	NB
4S7CF	14003	0234	9	MN
4S7EA	14009	2320	16	MI
5N9ABY	14026	2310	18	NH
5U7QL	14015	1950	15	NB
6W1AAD	14003	2123	19	FL
9Q5DX	14014	0525	14	CA
BY1QH	14004	0049	19	NB
CEØOGZ	14006	0205	14	MI
CEØZIG	14016	0210	15	CA
EL2CX	14002	2354	20	CT
FR4FD	14028	0425	13	CA
HC8VB	14024	0524	15	NH
HKØBKX	14003	0158	13	NJ
HL5BDS	14010	2341	21	CT
HZ1HZ	14005	2034	20	FL
JT1BC	14002	1222	17	NB
JT1BR	14033	0223	18	MA
JT2AB	14020	1043	17	FL
KH3/KNØE	14027	0400	15	MA
KH8/ SM7PKK	14025	1200	20	FL
KX6DC	14017	0405	19	OH
LU1ZA	14015	0005	15	NC
PZ1EH	14027	2241	8	NH
RH8AA	14032	2026	11	MA
UA1O/ UA0BDU	14026	0405	16	IL
UI9AAB	14028	0215	15	CA
VQ9DM	14024	0158	17	PA
VU2TTC	14036	1204	12	GA
XF4T	14017	1511	19	CA
YN3CC	14005	2104	19	FL
ZD8IAN	14012	2117	19	FL
ZL7TZ	14030	0740	18	NH

20 Meter SSB

3B8CF	14191	0230	17	MI
3B9FR	14243	0215	51	WV
3DAØAH	14248	0339	16	MT
4S7RO	14196	1150	14	MA
4S7VK *	14186	1234	21	MA
5T5SR	14190	2359	13	MT
9M6KT	14253	1043	14	VA
9N1MM	14213	0043	14	NH
A41KN	14197	1336	6	MD
D2/ LU6ELF	14247	0030	18	FL
FP5DX	14255	2355	12	FL
JT1KAI	14219	0157	16	WV
P29LB	14177	0234	11	MA
P29WB	14245	1200	13	OH
RH8AD	14239	1114	14	VA
TL8HW	14200	0325	3	MD
TU2UI	14182	1950	17	MA
UA1OIL	14207	0515	17	MT
UF6QAC	14230	0610	15	VA
UI8ZAA	14243	0503	6	MD
UL7VV	14244	0325	11	MA
VR6ID	14212	0143	10	MT
VU2BEJ *	14240	0337	3	MD
XW8KPL	14214	1238	21	MA
YIØBIF	14165	1151	18	FL

17 Meter SSB

CEØDFL	14172	0415	9	MT
CEØDFL	18158	0210	8	MA

15 Meter CW

3B8CF	21029	0405	11	OH
3C1EA	21012	2304	22	FL
5H3TW	21027	2335	16	FL
5U7QL	21011	1615	12	NH
5U7QL	21005	2140	16	IN
7X2AX	21009	1828	15	MA
9L1CM	21206	2155	15	CA
9Q5XX	21024	2010	16	IL
BV2DA	21010	0247	22	WA
BY4RB	21026	0203	21	ID
BY9GA	21027	0050	20	PA
BZ1OK	21022	2351	16	OR
CEØOGZ	21025	2314	14	NH
CEØZIG	21025	0318	18	GA
EL2CX	21026	2101	18	AL
EL7X	21010	1930	18	MI
FK8ES	21010	0440	12	GA
FR5DD	21003	0315	15	CA
FR5ZD	21040	0300	8	IA
HL5BDS	21010	2340	19	GA
KH6XT	21028	0633	15	MA
KX6OI	21018	0200	8	GA
LU1ZA	21017	2237	11	NH
PZ1DY	21026	2230	17	ID
RI1OA	21010	0230	8	GA
SU1AM	21014	1241	14	NH
UØK/ UV1POL	21021	0028	13	IN
UI9AWX	21012	1211	22	CT
XF4T *	21005	2050	19	ID
ZD8BOB	21006	2119	18	NH
ZD8GT	21015	1903	17	NH
ZD8IAN	21002	1154	16	MA

15 Meter SSB

3C1EA	21439	1555	14	MA
5U7QL	21345	2000	16	IL
5Z4MR	21215	2000	18	OH
7P8DP	21287	2122	11	RI
7X4AN	21295	2003	18	WV
9L1CM	21235	2051	18	MI
9L1NS	21200	2208	16	IL
9Q5XX	21215	2113	13	WV
9Q5XX	21265	2340	11	NC
BY9GA	21300	0048	16	MI
CN8FC	21227	2330	11	NC
EA9OB	21312	2136	13	MT
JT1BS	21271	0300	16	RI
KC4AAC	21323	0103	15	MI
SU1ER	21275	1348	3	MD
TJ1RB	21292	2113	12	IA
TR8RLA	21300	2140	15	MI
TZ1RP	21292	2136	12	MI
TZ6VV	21272	2234	3	IA
UJ8KAA	21240	0441	17	NC
UZØKWC	21295	2141	16	IL
VU2GI	21354	1732	14	NH
XT2PS	21351	2309	9	IA
XW8KPL	21300	0151	21	CA
XW8KPL	21295	2012	16	NC
Z21JE	21345	1940	13	WV
Z21JV	21315	1929	18	MA
ZS9A	21344	2135	12	FL

12 Meters

HZ1HZ	24901	1350	13	MI
OY7ML	24897	1436	19	NH
YN3CB	24947	2255	19	PA

10 Meter CW

5U7QL	28007	1400	18	IN
6W1QB	28026	2047	16	CT
7P8EL	28022	1535	19	FL
9J2AL	28043	1157	6	VA
9M6NA	28029	0030	25	FL
9Q5DX *	28020	2049	6	NB
9V1YC	28060	0005	25	FL
AH2/NT2X	28015	2320	16	FL
BY4RB	28029	0026	21	ID
BY4WNG	28508	0217	16	MT
BY5RT	28023	2339	24	FL
BZ1OK	28021	0156	15	MT
BZ4SAA	28003	0040	22	FL
CEØFFD	28030	2209	12	IA
EL2CX	28024	2057	17	FL
FK8DD	28012	2303	8	RI
HKØBKX	28010	1546	19	FL
HZ1HZ	28006	1630	7	NB
JD1YAA	28580	2323	20	PA
JY9LC	28020	1247	20	FL
KH2/NY6M	28040	0213	16	GA
KH3/KNØW	28025	0055	13	CA
KX6OI	28026	0213	11	PA
OD5PL	28018	1801	7	NB
OY7ML	28028	1437	18	GA
P29PL	28021	2134	14	NJ
PZ1EH	28034	1946	18	NJ
ST2/ PAØGAM	28043	1350	25	FL
TU4DT	28033	2124	19	CA
UH8AAD	28022	1229	21	FL
UL7GDX	28025	1243	21	FL
VU2PCD	28004	1412	23	FL
VU2SU	28010	1211	20	FL
XF4T	28004	0038	21	ID
ZC4FJ	28016	1221	20	FL
ZK1TB	28036	2329	19	ID
ZS3/ DF3EC	28026	1830	19	FL

10 Meter SSB

3B8CF	28470	1431	13	IA
3DAØBK	28514	1845	16	ME
3X1SG	28530	1300	18	NJ
5H3MO	28527	1714	8	NH
5H3TW	28555	1220	18	NJ
5T5HH	28553	2300	15	NH
5U7QL	28513	1539	16	ME
7X2ARA	28537	1253	18	NY
9J2FR	28575	1508	11	IA
9K2KW	28378	1454	15	NC
9L1CM	28538	1441	18	MA
A45YT	28605	1341	11	IA
A61AD	28467	1416	14	IA
A92EV	28665	1256	10	IA
BV2FA	28517	0055	16	RI
BY9GA	28275	0115	10	MD
BZ4RCC	28533	0115	22	CA
D2/ LU6ELF	28600	1712	13	GA
D44BS	28502	2306	13	VA
EL2CX	28507	1448	18	MA
HV3SJ	28486	1349	12	MS
HZ1AB	28490	1230	18	NJ
JD1YAA	28580	2357	11	IA
KHØAC	28584	2356	11	IA
OD5MM	28478	1338	9	MD
OD5VT	28525	1245	18	NJ
SV5TS	28532	1415	18	NY
T77V	28468	1806	12	MT
TJ1RP	28482	2035	3	MD
TL8SC	28477	2130	12	MT
UH8ABD	28779	1543	11	PA
UI8ZAC	28521	1215	18	NJ
UI9AAB	28661	1230	19	NJ
UQ2GAG	28525	1337	12	DE
VU2HI	28595	1323	11	IA
XT2PS	28575	1220	18	NJ
XW8KPL	28491	0048	17	MT
YIØBIF	28539	1318	21	FL
YJ8NMB	28540	0104	17	MT
YN/ SMØOIG	28536	1308	4	GA
ZC4EPI	28493	1205	18	NJ
ZC4ESB	28529	1215	18	NJ

Novice Band

ISØYEV	28115	1406	25	FL
LX7A	28114	1405	25	FL
LY2OQ	28102	1400	25	FL
LZ2KAM	28101	1401	25	FL
OH4NVX	28124	1409	25	FL
OK2SSS	28110	1403	25	FL
SP3KQV	28103	1402	25	FL
UB5JG	28110	1403	25	FL
UC2OL	28120	1407	25	FL

The DX Bulletin

P.O. Box 50
Fulton, CA 95439
U.S.A.

FIRST CLASS MAIL

First Class
U.S. Postage Paid
Santa Rosa, CA
Permit No. 550

Calendar

Issue 515 - December 1, 1989

(Changes and hot info in **boldface**.)

Angola - D2	LU6ELF/D2A 21340 kHz 1800Z	I511
Anguilla - VP2E	**VP2EMA by KV4AM to Dec. 6**	**I515**
Antarctica - KC4	**KC4AAC 15M SSB 0100Z**	**I515**
Bahamas - C6	**C6AFP in ARRL 10-Meter contest**	**I504**
Belau - KC6	**KC6MX, IF Nov. 22-Dec.3**	**I512**
Bouvet - 3Y	3YØB Feb. 1-11, 1990	I505
	3W5X Dec. 25-Jan. 8	**I516**
Burkino Faso - XT	**XT2KG by Colvins now.**	**I515**
Central African Rep.	**TL8HW on CW to Dec. 14**	**I515**
Chad - TT	TT8GA 15M SSB 2300Z	I513
Chagos - VQ9	VQ9DM 14025 0200-0300Z	I515
Chatham Is. - ZL7	ZM7VS Jan. 16-30, 1990	I505
China - BY	BY4RB 28027 0000Z, 21028 00Z	I512
Dodecanese - SV5	SV5TS 28530 14-1600Z	I515
Easter Island - CEØ	**CEØDFL 18140 02-0300Z**	**I515**
	CEØFF 28030 2200Z	**I515**
Equatorial Guinea 3C	3C1EA 15M CW/23Z 14040/00Z	I515
Gibraltar - ZB	**ZB2/F6JD 10-meter test**	**I515**
Hong Kong - VS	**by N2OO et al Nov. 28-Dec. 2**	**I508**
Iraq - YI	YIØBIF 28450-490 1500Z	I513
Johnston Is. - KH3	KNØE/KH3 28026 2130Z	I513
	KNØE/KH3 20M CW 0230Z	I514
Juan Fernandez - CEØ	CEØOGZ 14010/0100 21012/2300	I514
Kazakhstan - UL	**UL7VV 14210 0200Z**	**I515**
Laos - XW	**XW8CW/DX Nov. 28-Dec. 7**	**I512**
	XW8KPL 04-0700Z, >0900Z	**I515**
Liberia - EL	EL2CX 21010 20-2300Z	I515
	EL7X 21026 2100Z	I515
Macao - XX	**by N2OO et al Nov. 28-Dec. 2**	**I508**
Marion Island - ZS8	ZS8MI 14050 13-1500Z Friday	I509
Marshall Islands - KX	KX6DC 21020 0200Z	I514
Mauritius - 3B	3B8CF 18074/0300Z 14030/0230Z	I514
	3B8FQ 14008 0230Z	I514
Mayotte - FH	FH5EJ 28031 1600Z	I514
Morocco - CN	CN2AQ 28500+/- 1700Z	I513
Nepal - 9N	**9N1MM 14210 0100Z**	**I515**
Netherland Antilles	**PJ4/K3IPK Nov. 17-Dec. 8**	**I512**
New Caledonia - FK	FK8FS 15M CW 0400Z	I514
Niger - 5U	5U7NU on now	I514
Ogasawara - JD	**JA3EMU/JD1 Dec. 31-Jan 8**	**I515**
Oman - A4	A41KJ 14170 13-1500Z	I513
Papau New Guinea P2	**P29VPY, VCR Dec. 3-7, 11-16**	**I512**
Papua New Guinea	**P29PL 28030 2130-0200Z**	**I515**
Paraguay - ZP	ZP6XDW 21020 0200Z	I512
Revillagigedo - XF4	**XF4T Nov. 18-Dec. 3**	**I513**
Rotuma - 3D	**3D2XR by SM7PKK soon?**	**I515**
San Andres - HKØ	**HKØBKX 14012 02, 13, 21Z**	**I515**
Saudi Arabia - HZ	**HZ1HZ 14010 2030Z**	**I515**
	HZ1AB 28500 1230-1400	**I515**
Sierra Leone - 9L	9L1CM 21233 21-2200Z	I515
Singapore - 9V	9V1YB 21026 2330Z	I513
South Cooks - ZK1	**by OH4ML Nov. 28-Dec. 4**	**I503**
South Orkneys - VP8	LU1ZA 14014/00Z 21016/23Z	I515
South Shetlands	4K1F 14015 0900Z	I514
	HL5BDS 21011 00-0100Z	**I515**
Sri Lanka - 4S	4S7GF 14005 1145Z	I514
Sudan - ST	WZ6C/ST4 on CW soon	I512
	G4WYG/ST2 20M CW 1800Z	**I515**
Taiwan - BV	BV2DA 28010 00-0200Z	I514
Tanzania - 5H	5H3TW 75 meters 0300Z	I513
	5H1TW Dec. 17-24	**I515**
Turkmenistan - UH	RH8AA 20M CW 20-2300Z	I513
Turks and Caicos - VP5	**VP5P CW Nov. 30-Dec. 10**	**I514**
United Arab Emirates	**A61AD 28460 1200Z**	**I514**
Uzbekistan - UI	**UI8ZAA 14245 0330Z**	**I515**
Walvis Bay - ZS9	ZS9A 28610 1615Z M, Th, S	I514
Western Samoa - 5W	**5W1HK 14025 1200Z**	**I515**
Zaire - 9Q	9Q5XX 21261 20-0200Z	I514
Zambia - 9J	9J2BO 28030 1200Z	I514
Zone 23	RVØYF 21005 0300Z	I514

DX Activities and Contests

Date	Event or Activity	Info
Dec. 1-3	ARRL 160-Meter Contest	QST
Dec. 9-10	ARRL 10-Meter Contest	QST

Contributors

This Issue of The DX Bulletin would not have been possible without the invaluable assistance of the following: KH6BZF, SESC, 5H3TW, AA4NC, AB8K, DXNS, F6EEM, JA1UT, JA3MNP, KØPP, K1HDO, K1JKS, K1NIT, K1TN, K2OLG, K2PEQ, K4BAI, K4IQJ, K4LNA, K6IR, K7ABV, K8RWL, KA1XN, KA3DBN, KA3UVU, KA4YAE, KA7T, KB0VQ, KC3M, KC4DWI, KE7X, KG4O, KI6YB, KJ4BK, KM2P, KN7K, KR1S, KR4M, KS1J, KV4AM, KY2O, LNDX, N1HN, N2GLH, N2KK, N4RJZ, N4THW, N7XU, N8AGU, NO8R, NV8N, NX7K, NZ9R, SM7PKK, SV2RE, VE1ACK, W1BFT, W1CNU, W1FV, W1HH, W1NH, W1WAI, W3FME, W4VQ, W6JOX, W6MUS, W6UQF, W7LR, W8CT, W8MEP, W9DH, W9TKV, WA1NPZ, WA2MZX, WA9AQE, WB5KYK, WB8LVA, WB8SFF, WB8ZRL, WC6I, WD9GGY, WDX9JUG, WI9Z, WJ7R, and NCDXC. (Thanks -ed.)

Copyright The DX Bulletin. The DX Bulletin (ISSN 0279-8077) is published fifty times per year at P.O.Box 50, Fulton CA 95439. Telphone (707) 523-1001. Fax (707) 523-0852. Compu-Serve 75755,737. One-year subscription rates are $29 Second Class Mail, $38 First Class Mail, US$50 Foreign Airmail. Second Class postage paid at Santa Rosa CA. POSTMASTER: Send address changes to above address.